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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

|   |                      |
|---|----------------------|
| Applicant : Huazhou Lou   |                      |
| Appln. No. : 10/631,919   |                      |
| Filed : July 31, 2003   | Group Art Unit: 2651 |
| Title : DYNAMIC MEASUREMENT OF HEAD<br>MEDIA SPACING MODULATION | Examiner: Fred Tzeng |
| Docket No. : I69.12-0592  |                      |

**CERTIFICATION OF TELEFACSIMILE TRANSMISSION**

Commissioner For Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

~~571-271-8300~~

571-273-8400

I certify that the following papers are being telefacsimile transmitted to the U.S. Patent and Trademark Office on the date shown below:

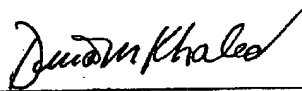
1. Letter to Examiner;
2. Reference AT of Information Disclosure Statement;
3. Copy of Information Disclosure Statement filed 7/31/03; and
4. Copy of postcard dated 7/31/03.

KINNEY &amp; LANGE, P.A.

Date:

11/3/05

By:



Dina M. Khaled, Reg. No. 52,761  
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## LETTER

Commissioner For Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

SENT VIA FACSIMILE

Facsimile No.: ~~571-271-8300~~

571-273-8400

Dear Examiner Tzeng:

Thank you for taking time to discuss the above-referenced application with me yesterday. Pursuant to our conversation, please find attached a copy of reference AT of the Information Disclosure Statement (IDS) submitted on July 31, 2003. As we discussed, our return postcard confirms receipt of the IDS and its identified twenty (20) cited references by the U.S. Patent and Trademark Office on July 31, 2003. It appears that you did not receive a copy of this reference. Thus, I have attached hereto copies of reference AT, the date-stamped return postcard, and the July 31, 2003 Information Disclosure Statement. I appreciate your willingness to now review reference AT. If you have any questions or concerns, please do not hesitate to give me a call.

Respectfully submitted,  
KINNEY & LANGE, P.A.

Date: 11/3/05By: 

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|                      |  |                                  |
|----------------------|--|----------------------------------|
| First Named Inventor | : Huazhou Lou et al.                                   | Group Art Unit:<br><br>Examiner: |
| Appln. No.           | :  |                                  |
| Filed                | : Herewith   |                                  |
| Title                | : DYNAMIC MEASUREMENT OF HEAD MEDIA SPACING MODULATION |                                  |
| Docket No.           | : 169.12-0592  |                                  |

**INFORMATION DISCLOSURE STATEMENT**

Commissioner For Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

I CERTIFY THAT THIS PAPER IS BEING SENT BY EXPRESS MAIL,  
TO THE ASSISTANT COMMISSIONER FOR PATENTS,  
WASHINGTON, D.C. 20231, THIS 31 DAY OF

\_\_\_\_\_, 2003.

  
\_\_\_\_\_  
PATENT ATTORNEY

Sir:

The enclosed PTO Form-1449 lists patents and publications submitted pursuant to 37 C.F.R. 1.97. Copies of the patents or publications are enclosed as necessary.

This application relies, under 35 U.S.C. 120, on the earlier filing date of prior Application No. \_ filed on \_ . The following references, listed on the enclosed PTO Form 1449 were submitted to and/or cited by the Office in the prior application; therefore, under 37 C.F.R. 1.98(d), copies are not required to be provided herewith:

Submitted herewith is a copy (with English translation as appropriate) of an Official Search Report of the \_ Patent Office in counterpart foreign Application No. \_ filed \_.

The following foreign language documents and English language documents are believed to be equivalent or substantially equivalent:

FOREIGN LANGUAGE

ENGLISH LANGUAGE

**TIME OF FILING**

The Information Disclosure Statement is being filed:

1. X with the application or within three months of the filing date of a national application (other than a continued prosecution application under 37 C.F.R. 1.53(d)) or date of entry into the national stage of an international application or, to the best of the undersigned's knowledge, before the mailing date of a first Office action on the merits or a first office action after the filing of a request for continued examination under 37 C.F.R. 1.114, whichever event occurs last. In accordance with 37 C.F.R.

-2-

Sheet 1 of 2

1.97(b), no certification or fee is required.

2. \_ after the time period specified in paragraph 1 above, but, to the best of the undersigned's knowledge, before the mailing date of a final action under 37 C.F.R. 1.113 or notice of allowance under 37 C.F.R. 1.311, or an action that otherwise closes prosecution of the application. In accordance with 37 C.F.R. 1.97(c), submitted herewith is:

(check either A or B below)

- A. \_ a statement as specified in 37 C.F.R. 1.97(e), no fee is required.  
B. \_ the fee set forth in 37 C.F.R. 1.17(p) for submission of an Information Disclosure Statement under 37 C.F.R. 1.97(c).

3. \_ after the mailing date of either a final action under 37 C.F.R. 1.113 or a Notice of Allowance under 37 C.F.R. 1.311, whichever occurs first, but on or before payment of the issue fee. Applicant petitions for consideration of this Information Disclosure Statement pursuant to 37 C.F.R. 1.97(d)(2). Applicant submits herewith:

- A. a statement as specified in 37 C.F.R. 1.97(e); and  
B. the fee set forth in 37 C.F.R. 1.17(p).

Respectfully submitted,

KINNEY & LANGE, P.A.

By: 

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PPK:ks

|   |   |                  |
|---|---|------------------|
| FORM PTO-1449   | Atty. Docket No.:<br>I69.12-0592            | Application No.: |
| LIST OF PATENTS AND PUBLICATIONS FOR<br>APPLICANT'S INFORMATION<br>DISCLOSURE STATEMENT | First Named Inventor:<br>Huazhou Lou et al. |                  |
|   | Filing Date:<br>Herewith                    | Group Art:       |

## U.S. PATENT DOCUMENTS

| Examiner<br>Initials | Document No. | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of Cited Documents |
|----------------------|--------------|--------------------------------|--|
| AA                   | 4,777,544    | 10-11-1988                     | Brown et al.                                     |
| AB                   | 5,130,866    | 07-14-1992                     | Klaassen et al.                                  |
| AC                   | 5,377,058    | 12-27-1994                     | Good et al.                                      |
| AD                   | 5,410,439    | 04-25-1995                     | Egbert et al.                                    |
| AE                   | 5,909,330    | 06-01-1999                     | Carlson et al.                                   |
| AF                   | 6,191,901 B1 | 02-20-2001                     | Carlson et al.                                   |
| AG                   | 6,249,393 B1 | 06-19-2001                     | Billings et al.                                  |
| AH                   | 6,268,976 B1 | 07-31-2001                     | Carlson et al.                                   |
| AI                   | 6,417,981 B1 | 07-09-2002                     | Smith  |
| AJ                   | 6,452,735    | 09-17-2002                     | Egan et al.                                      |
| AK                   | 6,459,539 B1 | 10-01-2002                     | Carlson et al.                                   |
| AL                   | 6,519,102 B1 | 02-11-2003                     | Smith et al.                                     |

## FOREIGN PATENT DOCUMENTS

|  | Foreign Patent<br>Document | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of<br>Cited Documents | Translation<br>Yes No |
|--|----------------------------|--------------------------------|---|-----------------------|
|  |                            |                                |   |                       |
|  |                            |                                |   |                       |
|  |                            |                                |   |                       |

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

-4-

Sheet 1 of 2

|   |   |                  |
|---|---|------------------|
| FORM PTO-1449   | Atty. Docket No.:<br>I69.12-0592            | Application No.: |
| LIST OF PATENTS AND PUBLICATIONS FOR<br>APPLICANT'S INFORMATION<br>DISCLOSURE STATEMENT | First Named Inventor:<br>Huazhou Lou et al. |                  |
|   | Filing Date:<br>Herewith                    | Group Art:       |

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|    |  |
|----|--|
| AM | R. L. Wallace, Jr., The Reproduction of Magnetically Recorded Signals, Pages 1145-1173   |
| AO | Klaas B. Klaassen, <i>Fellow</i> , IEEE, and Jack C. L. van Peppen, <i>Member</i> , IEEE Head-Medium Clearance and Lateral Track Registration of a Recording Head as Measured from the Readback Signal, January 2001 Pages 575-582 |
| AP | Bruce C. Schardt, Erhard Schreck, Richard Sonnenfeld, Quinn Haddock and John R. Haggis, Flying Height Measurement while Seeking in Hard Disk Drives, July 1998 Pages 1765-1767   |
| AQ | V. J. Novotny and M.-J. Hsiao, Sensitive Magnetic Readback Head-Disk Spacing Measurements in Recording Drives, July 1998, Pages 1762-1764  |
| AR | Robert Eaton and Michael Baldwinson, Imaging of Media Lubricant Spacing Contributions by Readback Signal Analysis, January 1997, Pages 974-977   |
| AS | Youping Deng, Hsiao-chu Tsai, and Brian J. Nixon, Drive-Level Flying Height Measurements and Altitude Effects, November 1994, Pages 4191-4193  |
| AT | Y. Ohtsubo, N. Kawashima and H. Maruno, Measurement Method for the Spacing Fluctuation of a Head Slider in a Magnetic Disk Drive, September 1987, Pages 3450-3452  |
| AU | W. K. Shi, L. Y. Zhu, and D. B. Bogy, Use of Readback Signal Modulation to Measure Head/Disk Spacing Variations in Magnetic Disk Files, January 1987, Pages 233-240  |

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Receipt hereby acknowledged by the Assistant Commissioner  
for the following items in the patent application of: 165 952

Applicant : Huazhou Lou et al.  
Filed : Herewith  
For : DYNAMIC MEASUREMENT OF HEAD MEDIA SPACING  
MODULATION  
Docket No.: 169.12-0592

1. Patent Application (14 pages) with Drawings (8 pages)
2. Check in the amount of \$790.00 and one for \$40.00
3. Utility Patent Application Transmittal
4. Fee Transmittal (in duplicate)
5. Declaration For Utility Patent Application
6. Assignment Recordation Sheet with attached Assignment
7. Power of Attorney
8. Submission Under 37 C.F.R. 3.73(b) with attached Assignment
9. File Data Sheet
10. Information Disclosure Statement
11. Twenty (20) Cited References

21909 U.S. PTO  
10/631919  
07/31/03

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July 31, 2003

10/631919